**ECOLOGY & EVOLUTION MAJOR, B.S. – 2016-2017**

To be admitted to full major status, students must fulfill the pre-biology course and grade point average requirements as described in the *General Catalog*. At minimum, they must complete twelve designated courses from the Preparation for the Major with a 2.0 or higher UC grade point average. Note: Hyphens indicate that an entire sequence must be completed as shown to fulfill an area requirement. A single course can satisfy only one requirement.

### PREPARATION FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1A-AL-B-BL-C-CL or 2A-AC-B-BC-C-CC</td>
<td>15</td>
</tr>
<tr>
<td>MCDB 1A-1AL-1B, EEMB 2-3-3L, and either MCDB 1BL or EEMB 2L</td>
<td>16</td>
</tr>
<tr>
<td>(Transfer students must consult the advisor regarding selected topics to be covered in Z courses)</td>
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</tr>
<tr>
<td>Mathematics 3A-B or 34A-B</td>
<td>8</td>
</tr>
<tr>
<td>One of the following: PSTAT 5LS or PSTAT 5A (Math 3C or 4A acceptable, but not recommended)</td>
<td>4 or 5</td>
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<tr>
<td>Physics 6A-AL-B-BL-C-CL</td>
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</tbody>
</table>

*Organic chemistry may be required by some graduate or professional schools. Consult your advisor.

### UPPER-DIVISION MAJOR

48 UD units are required in biological sciences, distributed as follows: .......................................................... 48

#### Courses with an asterisk (*) are listed in more than one area, but they may be applied to only one area

A. **Core Curriculum:** One course required from each of the following categories:

1. Ecology: EEMB 120 ................................................................. 1
2. Evolution: EEMB 131 (or Earth 121) ........................................... 1
3. Genetics: EEMB 129 or MCDB 101A ............................................. 1
4. Biometry: EEMB 146 ............................................................... 1

B. **Area of concentration:** Three courses required from the following, including at least one from B1 and B2:

1. Ecology: EEMB 119* (or Env S 119*), 128 (or Env S 128) 140*, 142A, 143, 148, 152 (or Env S 152), 153, 159, 167, 168, 171 (or Env S 171), ................................................................. 1
2. Evolution: EEMB 101, 102, 108*, 138, 180* ................................ 1

C. **Quantitative Biology Emphasis:** One course (or course sequence) required from the following:

EEMB 172, 176-176L, 179, 180* .................................................. 1

D. **Biodiversity and Systematics Emphasis:** Three courses (or course sequences) required from the following, including at least two laboratory courses (underlined):


E. **Electives:** Additional UD courses offered in EEMB, or from Areas B-D above, or from any of the following to bring the total UD units in the major to 48: Anth 121; Earth 144; Geog 167; MCDB 101AH, 101B, 131, 132

Recommended courses EEMB 142AL ............................................. 1

**Notes:** Laboratory courses are underlined in areas A-E above. The following courses do not count toward upper-division major credit: EEMB 181, 182, 183, 184 (except by petition), and 189. In addition, no more than 8 units of the following courses combined will apply: EEMB 184-199. Finally, a minimum of 32 units must be completed through courses within the EEMB Department.

### MAJOR REGULATIONS

**PREREQUISITES** ................................................................. Check the *General Catalog* for the prerequisites to all listed courses.

**P/NP GRADING OPTION** .................................................. Not allowed for major courses (Prep or UD), including courses applied to the major from other departments except up to 8 units of courses that do not allow letter grades.

**SUBSTITUTIONS** .............................................................. In the major requirements permissible only by petition to the department chair and dean.

**RESIDENCE REQUIREMENTS** .............................................. At least 20 UD units in major while in residence at UCSB.

**G.P.A REQUIREMENTS** .................................................... At least 2.0 overall UC average in all upper-division major courses and all courses (Prep and UD) for the major, including courses in excess of minimum requirements.

**DOUBLE MAJORS** ........................................................... With the approval of each department chairperson, up to a total of 8 units may be applied simultaneously to both UD majors.